

*Pinus strobus* - *Populus tremuloides* / *Corylus cornuta* Forest (White Pine - Aspen - Birch Forest)

COMMON NAME	White Pine - Trembling Aspen / Beaked Hazelnut Forest
SYNONYM	White Pine - Aspen - Birch Forest
PHYSIOGNOMIC CLASS	Forest (I)
PHYSIOGNOMIC SUBCLASS	Mixed evergreen-deciduous forest (I.C)
PHYSIOGNOMIC GROUP	Mixed needle-leaved evergreen - cold-deciduous forest (I.C.3)
PHYSIOGNOMIC SUBGROUP	Natural/Semi-natural (I.C.3.N)
FORMATION	Mixed needle-leaved evergreen - cold-deciduous forest (I.C.3.N.a)
ALLIANCE	PINUS STROBUS - (PINUS RESINOSA) - POPULUS TREMULOIDES FOREST ALLIANCE

CLASSIFICATION CONFIDENCE LEVEL 2

USFWS WETLAND SYSTEM TERRESTRIAL

RANGE

***Voyageurs National Park***

This type is found throughout the park, typically as part of a mix or as a mosaic of pure red or white pine and pure aspen-birch types.

***Globally***

This association is found in Michigan, Minnesota, Wisconsin, and probably Ontario.

ENVIRONMENTAL DESCRIPTION

***Voyageurs National Park***

Stands are found on a variety of slope positions on shallow to deep (> 60 cm), dry-mesic to mesic, rapidly drained soils.

***Globally***

Stands are found on a variety of slope positions on shallow to deep (> 60 cm), dry-mesic to mesic, rapidly drained soils, with fine sandy to loamy soil textures (Sims *et al.* 1989, Minnesota DNR 1993, Chambers *et al.* 1997).

MOST ABUNDANT SPECIES

***Voyageurs National Park***

Stratum

Tree canopy

Species

*Pinus strobus*, *Betula papyrifera*, *Populus tremuloides*

***Globally***

Stratum

Tree canopy

Species

*Pinus strobus*, *Betula papyrifera*, *Populus tremuloides*

CHARACTERISTIC SPECIES

***Voyageurs National Park***

*Pinus strobus*, *Betula papyrifera*, *Populus tremuloides*

***Globally***

*Pinus strobus*, *Betula papyrifera*, *Populus tremuloides*

VEGETATION DESCRIPTION

***Voyageurs National Park***

This type was not described separately at Voyageurs National Park. See global description for characteristics of this type.

***Globally***

The tree canopy is mixed evergreen-deciduous. *Pinus strobus* may form a supercanopy over a mixture of other species, including *Betula papyrifera*, *Populus tremuloides*, *Picea glauca*, and *Abies balsamea*. Less frequent are *Pinus resinosa*, *Populus grandidentata*, and *Thuja occidentalis*. The subcanopy can include *Acer rubrum* and *Acer saccharum*, as well as a mixture of canopy species. Tall shrubs and saplings include *Abies balsamea*, *Acer*

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Voyageurs National Park

*spicatum*, *Amelanchier* spp., and *Corylus cornuta*. Short shrubs include *Diervilla lonicera*, *Linnaea borealis*, *Lonicera canadensis*, and *Vaccinium myrtilloides*. *Viburnum cassinoides* may be present in the eastern part of the range. Herbs include *Aralia nudicaulis*, *Aster macrophyllus*, *Clintonia borealis*, *Cornus canadensis*, *Maianthemum canadense*, *Oryzopsis asperifolia*, *Pteridium aquilinum*, *Streptopus roseus*, and *Trientalis borealis*. Typical mosses include *Pleurozium schreberi*, *Dicranum polysetum* and *Dicranum flagellare* (Sims *et al.* 1989, Minnesota DNR 1993, Chambers *et al.* 1997).

CONSERVATION RANK G4?.

DATABASE CODE CEG002479

COMMENTS

***Voyageurs National Park***

The White Pine-Aspen-Birch Forest is rarely found as a distinct type; it more commonly is found as a mosaic of the White Pine/Mountain Maple Mesic Forest (CEG002445) and the Aspen-Birch/Boreal Conifer Forest (CEG002466). Where hardwoods, particularly *Populus tremuloides* and *Betula papyrifera*, are present in the canopy with *Pinus strobus* at > 25% cover, stands are classified as the White Pine-Aspen-Birch Forest.

***Globally***

This community may arise as a successional stage after fire, but may also originate after logging.

REFERENCES

- Chambers, B.A., B.J. Naylor, J. Nieppola, B. Merchant, P. Uhlig. Field Guide to Forest Ecosystems of Central Ontario. Southcentral Science Section (SCSS) Field Guide FG-01, Ontario Ministry of Natural Resources, North Bay, Ontario, Canada. 200 pp.
- Minnesota Natural Heritage Program. 1993. Minnesota's native vegetation: A key to natural communities. Ver. 1.5. Minn. Dep. Nat. Resour., Nat. Heritage Prog. St. Paul, Minn. 110 p.
- Sims, R. A., W. D. Towill, K. A. Baldwin, and G. M. Wickware. 1989. Field guide to the forest ecosystem classification for northwestern Ontario. Ontario Ministry of Natural Resources.